

## **IN THE CLAIMS**

*Please amend the claims as follows:*

1. (Currently Amended) A method for managing a local ~~Terminal Equipment~~ terminal equipment (TE) accessing a network through a mobile terminal (MT), wherein a management list of a local TE allowed to access is stored in the MT, the management list contains [[an]] identity and current state information of [[the]] one or more local [[TE]] TEs and information of whether each of the local TEs is allowed to access the network, wherein the network allows a limited number of local TEs to access via the MT, and wherein the management list is configured in a Mobile Terminal (MT) and a user identity card having an identity is inserted in coupled with the MT,

the method comprising:

~~when the network allows only a limited number of TEs to access the network via the MT, after receiving, by the MT, an authentication request identity message containing [[the]] an identity of [[the]] a local TE from the local TE in a network access establishing procedure,~~

~~the MT deciding determining, by the MT, according to the current state information of the local [[TE]] TEs allowed to access in the management list whether the MT is serving the number of the local TEs as limited by the network;~~

~~if the MT is serving the number of the local TEs as limited by the network, refusing to return the identity of the user identity card to the TE, and terminating the network access establishing procedure so that the access to the network by the local TE is not established;~~

~~if the MT is not serving the number of TEs as limited by the network, if the MT is serving fewer local TEs than the number as limited by the network, determining, by the MT, deciding whether according to the identity in the received authentication request identity message the management list whether exists in the management list of a the local TE is allowed to access the network;~~

~~if, according to the management list, the identity exists in the management list of the local TE is allowed to access the network, the MT acquiring, by the MT, [[an]] the identity of the user identity card and returning the identity of the user identity card to the local TE, so that the local TE accesses the network by using this the identity of the user identity card; and~~

~~if a message of successful authentication is received from the local TE, the MT~~

modifying, by the MT, the current state information of the local TE in the management list of a ~~local TE allowed to access~~, making the information to indicate an online state, sending key information to the local TE, ~~so that the~~ wherein the key information is used by the local TE in accessing the network by using the received key information;.

2-4. (Canceled)

5. (Currently Amended) The method according to Claim 1, wherein the authentication request identity message comprises information of ~~the an~~ authority identifier of ~~the a~~ service to be requested, wherein the management list of a ~~local TE allowed to access~~ further contains authority information for the local TEs ~~[[TE]]~~ to access the network, and wherein ~~the MT~~ acquiring, by the MT, ~~[[an]]~~ the identity of the user identity card and returning the identity of the user identity card to the local TE comprises:

~~the MT deciding determining, by the MT,~~ whether the information of ~~service the~~ authority identifier of the service in the received authentication request identity message is consistent with the authority information ~~[[of]]~~ for the local TEs ~~[[TE]]~~ in the management list of a ~~local TE allowed to access~~;

if the information of ~~service the~~ authority identifier in the received authentication request identity message is consistent with the authority information in the management list of a ~~local TE allowed to access~~, ~~the MT~~ acquiring, by the MT, the identity of the user identity card and returning the identity of the user identity card to the local TE, so that the local TE accesses the network by using ~~this the identity of the user identity card~~, ~~and the procedure is over; otherwise, refusing to return the identity of the user identity card to the TE, and terminating the procedure.~~

6-7. (Canceled)

8. (Currently Amended) The method according to Claim 1, further comprising:

after the local TE terminating ~~[[the]]~~ with the network service communication ~~with the network side~~, that is initiate by the local TE when the access to the network by the local TE is

~~established, determining, the MT receiving by the MT, [[the]] whether a logoff notice forwarded by the local TE from the network-side is received, and~~

~~if the logoff notice is received, modifying the current state information of the local TE in the management list of a local TE allowed to access, making the information to indicate an unused state.~~

9. (Currently Amended) The method according to Claim 8, further comprising: ~~when not having received a~~ if the logoff notice sent is not received from the local TE, that and the local TE has been identified as in the online state for a preset period of time, ~~the MT-modifying, by the MT,~~ the state information of this local TE, making the information to indicate the unused state.

10. (Currently Amended) The method according to Claim [[8]]1, ~~when after the MT modifies~~ modifying, by the MT, the state information of the local TE in the management list of a local TE allowed to access to make the information to indicate the online state, the method further comprising:

stamping [[the]]a time on the modified state information; and

wherein when-if the MT receives a new authentication identity-request identity message from another local TE and the other local TE is determined as allowed to access the network, and decides-determines according to the current state information of the local TEs[[TE]] in the management list of a local TE allowed to access that the MT itself is serving [[a]]the number of local TEs as limited by the network, the method further comprises:

deciding-determining whether [[the]]a time difference between the current time and the time indicated by the time stamp on the state information of the local TE has exceeded a preset time threshold;

if the time difference has exceeded the preset time threshold, modifying the state information of the local TE, and making the information to indicate the unused state, and acquiring, by the MT, the identity of the user identity card and returning the identity of the user identity card to the other local TE, so that the other local TE accesses the network by using the identity of the user identity card; otherwise, refusing to return the identity of the user identity card to the TE, and terminating the procedure.

11. (Canceled)

12. (Currently Amended) The method according to Claim 1, wherein at least one management list is ~~[[set]]~~ stored in the MT, and each management list is ~~corresponding~~ corresponds to a user identity card.

13. (Currently Amended) The method according to Claim ~~[[12]]~~ 1, wherein the user identity card ~~comprises is a Subscriber Identity Module~~ subscriber identity module (SIM) of a global system for mobile communications (GSM), a universal subscriber identity module (USIM) of 3GPPa third generation system for mobile communications, or an Internet protocol (IP) multimedia subsystem subscriber identity module (ISIM) of an IP multimedia subsystem.

14-17. (Canceled)

18. (Currently Amended) The method according to claim ~~[[4]]~~ 21, wherein the authentication request identity message further comprises information of ~~[[the]]~~ an authority identifier of ~~[[the]]~~ a service to be requested, ~~the method further comprising and~~ the management list of a local TE ~~allowed to access~~ further contains authority information for the local TEs ~~[[TE]]~~ to access the network, and ~~the MT acquiring, by the MT, the identity of the user identity card and returning the identity of the user identity card to the local TE comprises:~~

~~setting in the management list of a local TE allowed to access authority information for TE to access the network;~~

~~after deciding according to the information of TE identity in the management list to accept the authentication identity request, the MT deciding~~ determining, by the MT, whether the information of service the authority identifier of the service in the received request message is consistent with the authority information ~~[[of]]~~ for the local TEs ~~[[TE]]~~ in the management list;

~~if the information of service the authority identifier in the received authentication request identity message is consistent with the authority information in the management list of a local TE allowed to access, the MT acquiring, by the MT, the identity of the user identity card and~~

returning the identity of the user identity card to the local TE, so that the local TE accessing  
accesses the network by using this the identity of the user identity card, and the procedure is over;  
otherwise, refusing to return the identity of the user identity card to the TE, and terminating the  
procedure.

19. (Canceled)

20. (Currently Amended) The method according to claim 1, further comprising[[,]]:

if the identity in the received authentication request identity message does not ~~exist~~ match  
any identity information in the management list ~~of a local TE allowed to access~~, refusing to  
return the identity of the user identity card to the TE, and terminating the network access  
establishing procedure so that the access to the network by the local TE is not established.

21. (Currently Amended) The method according to claim 1, further comprising[[,]]:

if the identity in the received authentication request identity message does not ~~exist~~ match  
any identity information in the management list ~~of a local TE allowed to access~~, determining  
according to a policy ~~of the user~~ whether to return the identity of the user identity card to the  
local TE.

22. (New) A mobile terminal (MT), wherein a user identity card having an identity is coupled  
with the MT, the MT comprises:

a memory, configured to store a management list, wherein the management list contains  
identity and current state information of one or more local terminal equipments (TEs) and  
information of whether each of the local TEs is allowed to access a network and wherein the  
network allows a limited number of local TEs to access via the MT;

a receiver, configured to receive an authentication request identity message containing  
an identity of a local TE and a message of successful authentication from the local TE in a  
network access establishing procedure;

a processor, configured to:

determine, according to the current state information of the local TEs in the management list, whether the MT is serving the number of the local TEs as limited by the network;

if the MT is serving the number of the local TEs as limited by the network, terminate the network access establishing procedure so that an access to the network by the local TE is not established;

or, if the MT is serving fewer local TEs than the number as limited by the network, determine according to the management list whether the local TE is allowed to access the network; if the local TE is allowed to access the network according to the management list, acquire the identity of the user identity card and modify the current state information of the local TE in the management list to indicate an online state; and

a transmitter, configured to return the identity of the user identity card to the local TE if the local TE is allowed to access the network, and send key information to the local TE if a message of successful authentication is received from the local TE.

23. (New) The mobile terminal according to claim 22, wherein if the identity in the received authentication request identity message does not match any identity information in the management list, the processor is further configured to terminate the network access establishing procedure so that an access to the network by the local TE is not established.

24. (New) The mobile terminal according to claim 22, wherein if the identity in the received authentication request identity message does not match any identity information in the management list, the processor is further configured to determine according to a policy whether to return the identity of the user identity card to the local TE.

25. (New) The mobile terminal according to claim 24, wherein the authentication request identity message further comprises information of an authority identifier of a service to be requested, and the management list further contains authority information for the local TEs to access the network, and wherein the processor is further configured to:

if the local TE is allowed to access the network according to the management list, determine whether the information of the authority identifier of the service in the received

authentication request identity message is consistent with the authority information for the local TEs in the management list; and

if the information of the authority identifier in the received authentication request identity message is consistent with the authority information in the management list, acquire the identity of the user identity card; and

wherein if the information of the authority identifier in the received authentication request identity message is consistent with the authority information in the management list, the transmitter is further configured to return the identity of the user identity card to the local TE.

26. (New) The mobile terminal according to claim 22, wherein the authentication request identity message further comprises information of an authority identifier of a service to be requested, and the management list contains authority information for the local TEs to access the network, and wherein the processor is further configured to:

if the local TE is allowed to access the network according to the management list, determine whether the information of the authority identifier of the service in the received authentication request identity message is consistent with the authority information for the local TEs in the management list; and

if the information of the authority identifier in the received authentication request identity message is consistent with the authority information in the management list, acquire the identity of the user identity card; and

wherein if the information of the authority identifier in the received authentication request identity message is consistent with the authority information in the management list, the transmitter is further configured to return the identity of the user identity card to the local TE.

27. (New) The mobile terminal according to claim 22, wherein after the local TE terminates with the network service communication that is initiate by the local TE when the access to the network by the local TE is established, the processor is further configured to determine if a logoff notice forwarded by the local TE from the network is received by the receiver, and if the logoff notice is received, the processor is further configured to modify the current state information of the local TE in the management list to indicate an unused state.

28. (New) The mobile terminal according to claim 27, wherein if the logoff notice is not received from the local TE, and the local TE has been identified as in the online state for a preset period of time, the processor is further configured to modify the state information of this local TE to indicate the unused state.

29. (New) The mobile terminal according to claim 22, wherein at least one management list is stored in the memory and each management list corresponds to a user identity card.

30. (New) The mobile terminal according to claim 22, wherein the user identity card is a subscriber identity module (SIM) of a global system for mobile communications (GSM), a universal subscriber identity module (USIM) of a third generation system for mobile communications, or an Internet protocol (IP) multimedia subsystem subscriber identity module (ISIM) of an IP multimedia subsystem.